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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/628,866	07/28/2003	Shukri F. Khuri	EMI-001CX	3828	
WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI LLP TEN POST OFFICE SQUARE			EXAMINER		
			NASSER, ROBERT L		
BOSTON, MA 02109		:	ART UNIT	PAPER NUMBER	
			3735		
			MAIL DATE	DELIVERY MODE	
			10/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	·	Application No.	Applicant(s)				
Office Action Summary		10/628,866	KHURI ET AL				
		Examiner	Art Unit				
		Robert L. Nasser	3735				
	The MAILING DATE of this communication app	ears on the cover sheet	with the correspondence address				
	Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUI 6(a). In no event, however, may ill apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	•						
1)⊠	Responsive to communication(s) filed on 09 Ju	<u>ly 2007</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4) Claim(s) 1-39 is/are pending in the application.						
	4a) Of the above claim(s) <u>1-29,33,34,38 and 39</u> is/are withdrawn from consideration.						
· —	Claim(s) is/are allowed.						
	Claim(s) <u>30-32 and 35-37</u> is/are rejected. Claim(s) is/are objected to.						
· <u> </u>	Claim(s) srare objected to. Claim(s) are subject to restriction and/or	election requirement					
		oloonoli roquiroliio.					
Applicat	ion Papers						
•	The specification is objected to by the Examine						
10)	The drawing(s) filed on is/are: a) acce						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority I	ınder 35 U.S.C. § 119	•					
	•	priority under 35 H S C	8 119(a)-(d) or (f)				
-	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
ŕ	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
			·				
Attachmen							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) lo(s)/Mail Date				
3) 🔯 Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>3/24/04</u> .		f Informal Patent Application				

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Applicant's election without traverse of Group I and Species II in the reply filed on 7/9/2007 is acknowledged. Applicant did not list the elected claims, but it is the examiner's position that claims 30-32, and 35-37 are drawn to the elected embodiment. Accordingly, claims 1-29, 33-34, 38, and 39 are withdrawn from consideration.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 30-32, 35, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee 4717548. Lee measures tissue pH, i.e. blood pH, with an electrode, determining when acidosis occurs based on the pH and controls the delivery of oxygenated blood based on the pH. Claim 31 is rejected in that there is a controller to control the delivery of the fluid. Claim 32 is rejected delivering the fluid is effected by altering the flow rate, i.e. pump speed. Claim 37 is rejected in that Lee monitors temperature and barometric pressure. Air is a fluid. Hence, it measures fluid pressure.

Claims 30 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by the Tantillo et al article entitled, "Myocardial tissue pH in the assessment of the extent of myocardial ischemia and the adequacy of myocardial protection. Tantillo discloses throughtout a method including measuring the pH of the heart. Then on page 348-349, it teaches recognizing suboptimal pH levels of the heart, and delivering cold cardiplegia in response to low pH levels. Claim 32 is rejected in that the delivery of fluid goes from

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zero to a positive amount. Hence the flow rate is altered. Claim 35 is rejected in that if the delivery of cardioplegia is turned on and off, it is inherent that there is a valve.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tantillo et al in view of Lee. Tantillo manually adjusts the delivery of the solution. Lee is selected from a myriad references that automates such a delivery, to remove human error. Hence, it would have been obvious to modify Tantillo to use a control, to increase the accuracy of the system. In addition, with respect to claim 36, it would have been obvious to alert the physician by displaying to any changes occurring in such an automated procedure, to provide the physician with full knowledge of the status.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

RLN September 23, 2007 Robert & Mason of